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## ABSTRACT OF THE INVENTION

An imaging system, methodology, and various applications are provided to facilitate optical imaging performance. The system includes a sensor having one or more receptors and an image transfer medium to scale the sensor and receptors in accordance with resolvable characteristics of the medium. A computer, memory, and/or display associated with the sensor provides storage and/or display of information relating to output from the receptors to produce and/or process an image, wherein a plurality of illumination sources can also be utilized in conjunction with the image transfer medium. The image transfer medium can be configured as a k-space filter that correlates a pitch associated with the receptors to a diffraction-limited spot associated with the image transfer medium, wherein the pitch can be unit-mapped to about the size of the diffraction-limited spot.